

SWBAT

identify direction of velocity and acceleration

Sep 4-7:31 AM

Welcome!!!

SECA CP Physics
Thursday 12 November 2015



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Room C-244

- Open to page 33 & 35 for check-off

Centering
(circle)

Opening Activity:

What is the stuff in the equations?

pg 35

$\Delta t = \text{TIME}^{\text{CHANGE IN}}$

$V_i = \text{VELOCITY INITIAL}$

$a = \text{ACCELERATION}$

$\rightarrow \Delta x = \text{DISPLACEMENT}$

$V_f = \text{VELOCITY FINAL}$

Sep 7-7:04 AM

InterActive Notebook - Table of Contents

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Sep 5-9:09 AM

Direction of: (L), (R), 0

Pg 32

Scenario 1: Letting go of ball on left side

V_{initial} : 0 V_{middle} : R V_{final} : R

a_{initial} (0)R a_{middle} R a_{final} R

DOES THE SPEEDOMETER GO R, L, 0 (0) SLOWING DOWN

Scenario 2: Rolling ball up track starting on the right

V_i L V_m 0 V_f R

a_i R a_m R a_f R

ACC CAN'T BE 0 IF V IS CHANGING
U.A.M.

Scenario 3: Throwing ball up into the air U, D, 0

V_i ↑ V_m 0 V_f ↓

U.A.M. a_i ↓ a_m ↓ a_f ↓

Create a scenario with a car:

Nov 10-8:07 AM

Pg 34 - "Easy" UAM problems (Let me know if you need "Beginner" mode)

Done?

Challenge 1: find the 5th variable for each

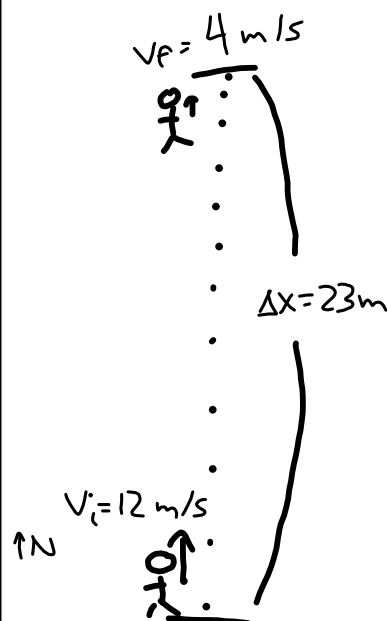
Challenge 2: Create your own word problem

$$\begin{aligned} v_f &= v_i + a\Delta t \\ \Delta x &= v_i\Delta t + \frac{1}{2}a\Delta t^2 \\ v_f^2 &= v_i^2 + 2a\Delta x \\ \Delta x &= \frac{1}{2}(v_i + v_f)\Delta t \end{aligned}$$

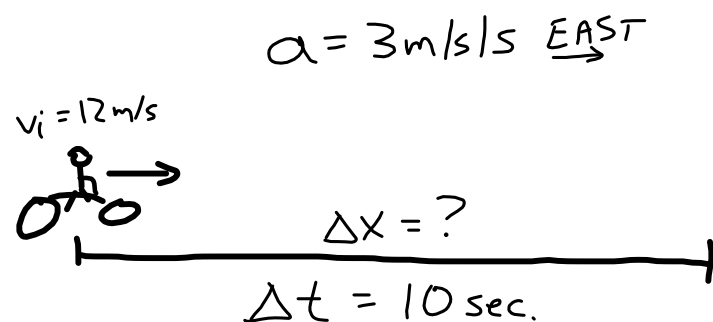
v_i = velocity initial
 v_f = velocity final
 a = acceleration
 Δx = displacement
 Δt = change in time

Nov 11-8:03 AM

PIC FOR #1



PIC FOR #2



Nov 13-9:57 AM